

Modélisation, Epidémiologie et Surveillance des risques sanitaires

Publications de 2021

Articles scientifiques

Dirand J, Rieunier F, Testa F, Temime L. [Evaluating the potential benefits of the use of a water-mist system in firefighting operations for Paris firefighters, through quantitative risk assessment](#). *Archives des Maladies Professionnelles et de l'Environnement*. 2021. Nov;82(6):601-13. Hors projets

Hocine MN, Perozziello A, Jean K, Godon AS, Temime L, Dab W. [Measuring the involvement of companies in prevention: setting a conceptual framework](#). *Archives des Maladies Professionnelles et de l'Environnement*. 2021 Nov ;82(6):565-76. Projet [ImPrESS](#)

Echeverria-Londono S, Li X, Toor J, de Villiers MJ, Nayagam S, Hallett TB, [...] Jean K et al. [How can the public health impact of vaccination be estimated?](#) *BMC Public Health*. 2021 Nov;21(1):2049. Projet [Fièvre Jaune](#)

Smith DRM, Temime L, Opatowski L. [Microbiome-pathogen interactions drive epidemiological dynamics of antibiotic resistance: a modelling study applied to nosocomial pathogen control](#). *eLife*. 2021 Sep;10:e68764. Projet [SPHINx](#)

Opatowski L, Opatowski M, Vong S, Temime L. [A One-Health quantitative model to assess the risk of antibiotic resistance acquisition in Asian populations: impact of exposure through food, water, livestock and humans.](#) *Risk Analysis*. 2021 Aug; 41(8):1427-1446. Projet [SARAH](#)

Toor J, Echeverria-Londono S, Li X, Abbas K, Carter ED, Clapham HE, [...] Jean Ket al. [Lives saved with vaccination for 10 pathogens across 112 countries in a pre-COVID-19 world](#). *eLife* 2021 Jul;10:e67635. Projet [Fièvre Jaune](#)

Smith DRM, Opatowski L. [COVID-19 containment measures and incidence of invasive bacterial disease](#). *The Lancet Digital Health* 2021 Jun; 3(6):e331-2. Hors projets

Daouda OS, Hocine MN, Temime L. [Determinants of healthcare worker turnover in intensive care units: a micro-macro multilevel analysis](#). *PloS One* 2021 May; 16(5):e0251779. Projet [MOTILIS](#)

Gaythorpe KAM, Hamlet A, Jean K, Garkauskas Ramos D, Cibrelus L, Garske T, Ferguson NM. [The global burden of yellow fever](#). *eLife* 2021 Mar; 10:e64670. Projet [Fièvre Jaune](#)

Bastard J, Haenni M, Gay E, Glaser P, Madec JY, Temime L, Opatowski L. [Drivers of ESBL-producing Escherichia coli dynamics in calf fattening farms: a modelling study](#). *One Health* 2021 Mar; 12:100238. Projet [SARAH](#)

Sapena V, Enea M, Torres F, Celsa C, Rios J, Rizzo GEM, [...] Jean Ket al. [Hepatocellular carcinoma recurrence after direct-acting antiviral therapy: an individual patient data meta-analysis](#). *Gut*. 2021 Mar:gutjnl-2020-323663. Projet **HCC-Egypte**

Anwar WA, El Gaafary M, Girgis SA, Rafik M, Hussein WM, Sos D, Mossad IM, Fontanet A, Temime L. [Hepatitis C Virus infection and risk factors among patients and health-care workers of Ain Shams University Hospitals, Cairo](#). Egypt. *PLoS One* 2021 Feb; 16(2):e0246836. Projet **IMMHoTHep**

Jean K, Raad H, Gaythorpe KAM, Hamlet A, Mueller JE, Hogan D, Mengistu T, Whitaker HJ, Garske T, Hocine MN. [Assessing the Impact of Preventive Mass Vaccination Campaigns on Yellow Fever Outbreaks in Africa: A Population-Level Self-Controlled Case-Series Study](#). *PLOS Medicine* 2021 Feb; 18(2):e1003523. Projet **Fièvre Jaune**

Li X, Mukandavire C, Cucunubá ZM, Abbas K, Clapham HE, Jit M, Johnson HL, [...] Jean K et al. [Estimating the health impact of vaccination against 10 pathogens in 98 low and middle income countries from 2000 to 2030](#). *Lancet* 2021 Jan; 397(10272):398-408

Duchemin T, Bastard J, Ante-Testard PA, Assab R, Daouda OS, Duval A, Garsi JP, Lounissi R, Nekkab N, Neynaud H, Smith DRM, Dab W, Jean K, Temime L, Hocine MN. [Monitoring sick leave data for early detection of influenza outbreaks](#). *BMC Infectious Diseases* 2021 Jan; 21(1):52. Hors projets

Temime L, Gustin MP, Duval A, Buetti N, Crepey P, Guillemot D, Thiebaut R, Vanhems P, Zahar JR, Smith DRM, Opatowski L, Modelling COVID-19 in hospitals REACTinG AVIESAN working group. [A Conceptual Discussion About the Basic Reproduction Number of Severe Acute Respiratory Syndrome Coronavirus 2 in Healthcare Settings](#). *Clinical Infectious Diseases*. 2021 Jan; 72(1):141-143. Projet **MOD-COV** + Projet **SPHINx**

Communications dans des conférences internationales

8th International Conference on Infectious Disease Dynamics

Smith DRM, Temime L, Opatowski L. Microbiome-pathogen interactions drive epidemiological dynamics of antibiotic resistance: modelling insights for infection control. **Epidemics8 - International Conference on Infectious Disease Dynamics**. November 30 – December 3, 2021, **Bologna, Italy (Virtual)**. Oral.

Smith DRM, Duval A, Zahar J-R, Opatowski L, Temime L. Mass rapid diagnostic testing as a public health response to SARS-CoV-2 outbreaks in long-term care settings. **Epidemics8- International Conference on Infectious Disease Dynamics**. November 30 – December 3, 2021. **Bologna, Italy (Virtual)**. Poster.

Shirref G, Zahar J-R, Cauchemez S, Temime L, Opatowski L, EMEA-MESuRS working group on nosocomial SARS-CoV-2 modelling. Estimating nosocomial R₀: analysing transmission and impact of non-pharmaceutical measures. **Epidemics8- International Conference on Infectious Disease Dynamics**. November 30 – December 3, 2021. **Bologna, Italy (Virtual)**. Poster.

Oodally A, Hammami P, Reilhac A, Guérineau de Lamérie G, Opatowski L, Temime L. Hospital-level work organization drives the spread of SARS-CoV-2 within hospitals : insights from a multi-ward model. **Epidemics8 - International Conference on Infectious Disease Dynamics**. November 30 – December 3, 2021. **Bologna, Italy (Virtual)**. Poster.

Jijón S, Al Shafie A, Temime L, Jean K, El Kassas M. Estimating the risk of incident risk of SARS-CoV-2 infection and the contribution of different transmission routes among healthcare workers residing in Egyptian quarantine hospitals.

Epidemics8 - International Conference on Infectious Disease Dynamics. November 30 – December 3, 2021.

Bologna, Italy (Virtual). Poster.

Henriot P, Buelow E, Petit F , Ploy MC, Dagot C, Opatowski L. Modeling the impact of urban and hospital wastewaters on antibiotic resistance dynamics. **Epidemics8 - International Conference on Infectious Disease Dynamics** . November 30 – December 3, 2021, **Bologna, Italy (Virtual)**. Poster.

Raad H, Hocine M, Gaythorpe K, Hamlet A, Mueller J, Hogan D, Mengistu T, Whitaker H, Garske T, **Jean K**. Assessing the number of yellow fever outbreaks averted by mass vaccination campaigns: an application of the Self Controlled Case Series method at the population level. **Epidemics8 - International Conference on Infectious Disease Dynamics**. November 30 – December 3, 2021. **Bologna, Italy (Virtual)**. Poster.

14th European Public health Conference

Bouziri H, Roquelaure Y, Descatha A, Dab W, Jean K. Disentangling the roles of demographic and temporal trends in musculoskeletal disorders. **14th European Public health Conference**. November 10-12, 2021. **The Netherlands (Virtual)**. Oral

6th International Conference on Prevention & Infection Control

Smith DRM, Duval A, Zahar J-R, Opatowski L, Temime L Mass rapid diagnostic testing as a public health response to SARS-CoV-2 outbreaks in long-term care settings. **ICPIC6 – 6th International Conference on Prevention & Infection Control**. September 14-17, 2021. **Geneva, Switzerland**. Oral.

Shirref G, Zahar J-R, Temime L, Opatowski L. Estimating SARS-CoV-2 transmission and efficacy of preventive measures in a long-term care facility. **ICPIC6 - 6th International Conference on Prevention & Infection Control**. September 14–17, 2021. **Geneva, Switzerland**. Oral.

Odally A, Hammami P, Reilhac A, Guérineau de Lamérie G, Opatowski L, Temime L. Hospital-level work organization drives the spread of SARS-CoV-2 within hospitals : insights from a multi-ward model. **ICPIC6 - 6th International Conference on Prevention & Infection Control**. September 14–17, 2021. **Geneva, Switzerland**. Oral.

Jijón S, Al Shafie A, Temime L, Jean K, El Kassas M. Risk of incident SARS-CoV-2 infection among healthcare workers residing in Egyptian quarantine hospitals. **ICPIC6 - 6th International Conference on Prevention & Infection Control**. September 14–17 2021. **Geneva, Switzerland**. Poster.

Henriot P, Castry M, Luong Nguyen LB, Shimakawa Y, **Jean K**, Temime L. Risk of HCV infection associated with hospital-based invasive procedures: a systematic review and meta-analysis. **ICPIC6 - 6th International Conference on Prevention & Infection Control**. September 14–17, 2021. **Geneva, Switzerland**. Poster.

Journées Annuelles de la Santé Publique de l'Institut national de la santé publique du Québec

Trouillet M, Girard L, Gardeur E, Prins C, Dab W, Vernay M ; Un projet novateur pour suivre la santé des riverains d'un projet de centre de stockage de déchets nucléaires. **Journées Annuelles de la Santé Publique de l'Institut national de la santé publique du Québec**. November 23, 2021. **Montréal, Canada**. Poster

Congrès annuel de la Société francophone de santé et d'environnement

Trouillet M, Girard L, Gardeur E, Prins C, Dab W, Vernay M ; Mise en place participative d'un observatoire de la santé des riverains d'un projet de centre de stockage de déchets nucléaires. **Congrès Annuel de la Société francophone de Santé et d'Environnement**. November 15, 2021. **La-Chaux-de-Fonds, Suisse**. Poster

11th IAS Conference on HIV Science

Ante-Testard PA, Hamidouche M, Temime L, Benmarhnia T, Jean K. Understanding the pathways leading to socioeconomic inequalities in HIV testing uptake among women in 18 sub-Saharan African countries: a mediation analysis. **IAS11 - 11th IAS Conference on HIV Science**. July 18-21, 2021. **Germany (Virtual)**. E-Poster

Hamidouche M, Ante-Testard PA, Jean K. Monitoring socioeconomic inequalities across HIV knowledge, attitudes, behaviours and prevention: results from cross-sectional surveys in 18 sub-Saharan African countries. **IAS11 - 11th IAS Conference on HIV Science**. July 18-21, 2021. **Germany (Virtual)**. E-Poster

52èmes Journées de Statistique - SFDS

Duchemin T, Hocine M. Noufaily A. Modèle de détection d'anomalies pour données longitudinales: application aux arrêts maladie. **jds2021 - 52èmes Journées de Statistique de la Société Française de statistique**. June 7-11 ,2021. **Nice, France**. Oral

Conférences invitées

Ante-Testard PA. Socioeconomic inequalities in HIV testing in sub-Saharan Africa: multi-country analysis of population-based survey. **ERES seminar**: Equipe de Recherche en Épidémiologie Sociale, Inserm, IPLESP. March 11, 2021. **Paris, France**. Virtual

Jean K. Masterclass : La transition écologique : quels outils pour quels niveaux d'action ? **Remise des diplômes PÉPITE HESAM Entreprendre et Centre Michel Serres**. Paris, France.

Temime L. Utiliser la modélisation pour aider au contrôle du risque nosocomial. **Séminaire OutcomeRea**. January 22, 2021. **Paris, France**